UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103

MEMORANDUM

DATE: December 22, 1999

SUBJ: Amendment to the Technical Support Document for the One-Hour Ozone Attainment Demonstration for the Pennsylvania Portion of the Philadelphia-Wilmington-Trenton Ozone Nonattainment Area (PA117-4095)

FROM: Todd Ellsworth, Environmental Scientist 12/22/99
Technical Assessment Branch (3AP22)

TO: File

THRU:
David L. Arnold, Chief
Ozone & Mobile Sources Branch (3AP21)

The following text is inserted after Attachment 5 on the Attachments page, "Attachment 6. (See Attachment to this memorandum for content), Philadelphia Area Peak Modeled Ozone Concentrations for the July 7-8, 1988 Episode, E-mail from Dr. Vinitha Purushothaman, Rutgers University Ozone Research Center". The contents of The following text is inserted at the end of the sixth paragraph in section III.G. of the TSD after the sentence ending with152 ppb. "The model predicted peak concentrations presented in the table below for the July 7-8, 1988 episode are peak concentrations taken from the Philadelphia area plume. Modeling for this episode shows two distinct plumes, one in the in the northeastern portion of the domain near New York City and another downwind of the Philadelphia area. Each of these plumes is influenced primarily by the emissions from the area closest to the plume. Therefore, in the analysis below, EPA believes it is appropriate to evaluate the benefits (reduction in ozone concentration) from emission reductions in the Philadelphia area by analyzing the ozone concentrations in the portion of the modeling domain (the Philadelphia area plume) that are influenced greatest by those emission reductions. The modeled peak concentrations for the Philadelphia area plume for the July 7-8, 1988 episode were supplied by a October 19, 1999 e-mail from Rutgers University Ozone Research Center (see Attachment 6)". In Attachment 5 the relative reduction factor fraction of 149.3 ppb/180.3 ppb in 1. is replaced with 143.5 ppb/173 ppb.

Attachment

Attachment 6.

Philadelphia Area Peak Modeled Ozone Concentrations for the July 7-8, 1988 Episode